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July 1, 2013

Ms. Ingrid H. Hopkins
Water Protection Division (3WP42)
US EPA – Region III
1650 Arch Street
Philadelphia, PA 19103-3029
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**RE: Benning Road Generating Station – NPDES Permit No. DC 0000094
Metal Excursions– Outfall 013Q**

Dear Ms. Hopkins,

This letter is a follow-up to the June 26, 2013 telephone notification, made on behalf of Pepco Energy Services, Inc. by Ms. Heather Brinkerhoff of HB Consulting LLC., to report daily maximum copper, iron and zinc excursions from a storm water grab sample taken on June 6, 2013 from Outfall 013.

On June 25, 2013 Ms. Brinkerhoff received the laboratory analysis indicating that the daily maximum concentrations for copper, iron and zinc were exceeded. Ms. Brinkerhoff made the required telephone notification to the US Environmental Protection Agency (EPA) in accordance with NPDES permit condition VI.6.

The results of the laboratory analyses for copper, iron, and zinc are shown in the following table:

Analyte	Units	Permit Limit Daily Max	Results
Copper	ug/L	13.44	44
Iron	mg/L	1.0	1.1
Zinc	ug/L	117.18	190

As discussed in our prior correspondence, on July 19, 2010, the facility submitted a TMDL Implementation Plan to EPA as required by the facility's NPDES permit. The TMDL Plan provided information on past, current, and planned activities at the facility to meet the required load reductions for the Anacostia River TMDLs for metals. EPA approved the plan and the facility completed the implementation of Phase I (inlet maintenance) and Phase II (metal management) control measures as of December 2012. This included installing metal absorbing filter guards in storm drains throughout the

facility; installing sediment removal and oil absorbing booms around storm drain inlets; and removing or covering stored metal and equipment exposed to the weather.

In February 2013, AMEC, our environmental consultant assisting with the implementation of the TMDL Plan, calculated the percentage reduction of pollutant concentrations in storm water discharges from Outfall 013 based on the analytical results of the first quarter 2013 storm water sampling. The storm water samples were collected in January 2013 following the completion of Phase I and Phase II control measures. AMEC's calculations showed a significant decrease in metal concentrations in storm water discharges from Outfall 013 compared to baseline concentrations. Specifically the following percent reductions were obtained: Cadmium – 100%, Copper – 73%, Iron – 84%, Lead – 77%, and Zinc – 87% (see Attachment 1). This analysis was submitted to EPA along with the February 2013 DMRs.

Unfortunately, concentrations of copper, iron, and zinc in the June 2013 were higher than for January 2013 sample, although they were still well below the baseline concentrations, which confirms that the measures already taken have been effective to reduce metals loading to storm water discharged from the site. The June 2013 concentrations also reflect baseline percentage reductions that continue to meet the pollutant load reduction requirements under the Anacostia River TMDL.

We have not identified any specific reason for the June 2013 permit excursions, or the increase in concentrations from January 2013, although we are continuing to investigate possible causes. We are also evaluating additional measures to further reduce pollutant concentrations and to help achieve consistent compliance with the permit limits. The next step includes implementation of Phase III control measures as identified in the TMDL Plan (i.e., installation of additional LID structures).

Please contact me at (703) 253-1787 or by electronic mail at mwilliams@pepcoenergy.com if you need additional information.

Respectfully yours,

Michael V. Williams

Michael V. Williams
Power Plant Asset Manager
Pepco Energy Services, Inc.

Outlet	Parameter	Sample Date	Units	Concentration (mg/L)	Average Flow (ft ³ /s)	Load (mg/s)	Maximum Daily (mg/L)	Baseline Concentration (mg/L)	Source of Baseline Concentration ⁽¹⁾	Average Baseline Flow (ft ³ /s)	Baseline Load (mg/s)	Pollutant compared with Maximum Daily Discharge Concentration ⁽²⁾	Pollutant Concentration compared with Baseline Concentration ⁽³⁾	Pollutant Load compared with Baseline Load ⁽⁴⁾
0130	TSS	1/14/2013	mg/L	11	0.882	278	100	42	Highest TSS discharge concentration from DMR data. Quarterly estimator DMR data for Q4-2010. TSS was not reported on DMRs prior to July-Sep 2008. Flow was measured in October 2010.	4.82	5732	89%	74%	85%
0130	Calcium	1/14/2013	mg/L	<0.0050	0.882	0.0 ⁽⁵⁾	0.00465	0.00075	Highest calcium discharge concentration from DMR data for Q4-2010. Quarterly estimator DMR data for July-Sep 2008.	7.48	0.16	100%	100%	100%
0130	Copper	1/14/2013	mg/L	0.017	0.882	0.43	0.01344	0.064	Highest copper discharge concentration from DMR data for Q4-2010. Quarterly estimator DMR data for July-Sep 2008.	3.14	5.66	<20%	73%	92%
0130	Iron	1/14/2013	mg/L	0.84	0.882	24	1.00	5.80	Highest iron discharge concentration from DMR data for Q4-2010. Quarterly estimator DMR data for July-Sep 2007.	0.148	24.31	6%	84%	2%
0130	Nickel	1/14/2013	mg/L	0.029	0.882	0.73	0.117 ⁽¹⁾	0.066	Highest nickel discharge concentration from DMR data for Q4-2010. Quarterly estimator DMR data for July-Sep 2007.	0.148	0.23	75%	48%	<12%
0130	Lead	1/14/2013	mg/L	0.0023	0.882	0.13	0.00458	0.023	Highest lead discharge concentration from DMR data for Q4-2010. Quarterly estimator DMR data for July-Sep 2008.	7.48	4.87	82%	77%	87%
0130	Zinc	1/14/2013	mg/L	0.12	0.882	3.03	0.11716	0.9	Highest zinc discharge concentration from DMR data. Quarterly estimator DMR data for July-Sep 2008.	5.15	131.28	<2%	87%	88%
0130	PCB-1242	1/14/2013	mg/L	<0.0001	0.882	0.0 ⁽⁵⁾	No Discharge	0	Quarterly DMRs for Q4-2010. PCB Analyses were not stated from 2008 to 2010.	N/A ⁽⁶⁾	0 ⁽⁵⁾	0%	0% ⁽¹⁾	0% ⁽¹⁾
0130	PCB-1254	1/14/2013	mg/L	<0.0001	0.882	0.0 ⁽⁵⁾	No Discharge	0	Quarterly DMRs for Q4-2010. PCB Analyses were not stated from 2008 to 2010.	N/A ⁽⁶⁾	0 ⁽⁵⁾	0%	0% ⁽¹⁾	0% ⁽¹⁾
0130	PCB-1260	1/14/2013	mg/L	<0.0001	0.882	0.0 ⁽⁵⁾	No Discharge	0	Quarterly DMRs for Q4-2010. PCB Analyses were not stated from 2008 to 2010.	N/A ⁽⁶⁾	0 ⁽⁵⁾	0%	0% ⁽¹⁾	0% ⁽¹⁾
Marble K	TSS	1/14/2013	mg/L	41	0.07	81.27	Monthly Only	41	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	258.80	N/A	0%	89%
Marble K	Calcium	1/14/2013	mg/L	<0.00050	0.07	0.0 ⁽⁵⁾	0.0048 ⁽¹⁾	0.0012	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0.01	100%	100%	100%
Marble K	Copper	1/14/2013	mg/L	0.045	0.07	0.28	0.0134 ⁽¹⁾	0.083	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0.26	<20%	52%	85%
Marble K	Iron	1/14/2013	mg/L	1.8	0.07	3.77	Monthly Only	3.8	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	24.00	N/A	50%	84%
Marble K	Nickel	1/14/2013	mg/L	0.03	0.07	0.08	0.117 ⁽¹⁾	0.09	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0.27	74%	87%	80%
Marble K	Lead	1/14/2013	mg/L	0.007	0.07	0.07	0.0048 ⁽¹⁾	0.13	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0.42	43%	75%	81%
Marble K	Zinc	1/14/2013	mg/L	0.16	0.07	0.23	0.117 ⁽¹⁾	0.57	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	3.80	<20%	72%	81%
Marble K	PCB-1242	1/14/2013	mg/L	<0.0001	0.07	0.0 ⁽⁵⁾	No Discharge	0.2 ⁽¹⁾	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0 ⁽⁵⁾	N/A	0% ⁽¹⁾	0% ⁽¹⁾
Marble K	PCB-1254	1/14/2013	mg/L	<0.0001	0.07	0.0 ⁽⁵⁾	No Discharge	0.2 ⁽¹⁾	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0 ⁽⁵⁾	N/A	0% ⁽¹⁾	0% ⁽¹⁾
Marble K	PCB-1260	1/14/2013	mg/L	<0.0001	0.07	0.0 ⁽⁵⁾	No Discharge	0.2 ⁽¹⁾	Third Quarter 2011 DMR for Marble K ⁽¹⁾ . Flow was measured in November 2011.	0.223	0 ⁽⁵⁾	N/A	0% ⁽¹⁾	0% ⁽¹⁾

Sources:
(a) Metrick, 2013. First Quarter 2013 Analytical Results. Metrick Laboratories, Inc.
(b) USEPA, 2008. Authorization to Discharge Under the National Pollutant Discharge Elimination System Industrial Permit Number DCO000004. United States Environmental Protection Agency. Effective July 19, 2008.
(c) USEPA, 2008. Authorization to Discharge Under the National Pollutant Discharge Elimination System Industrial Permit Number DCO000004. United States Environmental Protection Agency. Effective July 19, 2008.
(d) Not required by 2008 NPDES Permit for Burning Generating Station.
(e) Data from the September 5, 2011 sampling event for Marble K was established as the baseline load because it was the first sample collected after Marble K was reinstalled. The report was performed so that a representative sample could be collected from Marble K. Flow was estimated based on the storm history and catchment area.
(f) No maximum daily limit is listed. Value is the Maximum Daily Stormwater Discharge Concentration Goal for Marble listed in Section VIII.E of the 2008 NPDES Permit for Burning Generating Station.
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(h) Data for values indicate that the 2010 DMRs for Marble K are lower than the baseline concentration loads.
(i) There were no detections of PCB Analyses. Therefore, a baseline load is based on the 2010 DMRs for Marble K.
(j) Baseline concentrations are based on the highest concentration listed on DMRs for Outlet 0130 from 2008 to 2007. TSS was not reported on DMRs until 2008. Therefore, the baseline concentration for TSS is from the highest concentration listed on the July-Sep 2008 to 2010 DMRs for Outlet 0130.

Notes:
NA - Not applicable.
N/A - Not reported.
CB - cubic feet per second.

(1) Pollutant concentration was not detected. Concentration used in pollutant load calculation is set to zero.
(2) Flow was measured when samples were collected.
(3) Not required by 2008 NPDES Permit for Burning Generating Station.
(4) Data from the September 5, 2011 sampling event for Marble K was established as the baseline load because it was the first sample collected after Marble K was reinstalled. The report was performed so that a representative sample could be collected from Marble K. Flow was estimated based on the storm history and catchment area.
(5) No maximum daily limit is listed. Value is the Maximum Daily Stormwater Discharge Concentration Goal for Marble listed in Section VIII.E of the 2008 NPDES Permit for Burning Generating Station.
(6) No maximum daily limit is listed. Value is the Maximum Daily Stormwater Discharge Concentration Goal for Marble listed in Section VIII.E of the 2008 NPDES Permit for Burning Generating Station.
(7) Data for values indicate that the 2010 DMRs for Marble K are lower than the baseline concentration loads.
(8) There were no detections of PCB Analyses. Therefore, a baseline load is based on the 2010 DMRs for Marble K.
(9) Baseline concentrations are based on the highest concentration listed on DMRs for Outlet 0130 from 2008 to 2007. TSS was not reported on DMRs until 2008. Therefore, the baseline concentration for TSS is from the highest concentration listed on the July-Sep 2008 to 2010 DMRs for Outlet 0130.